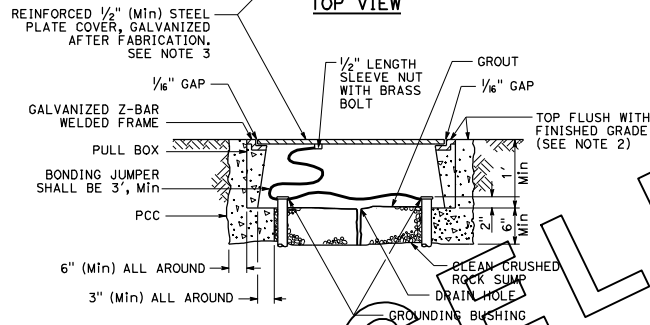
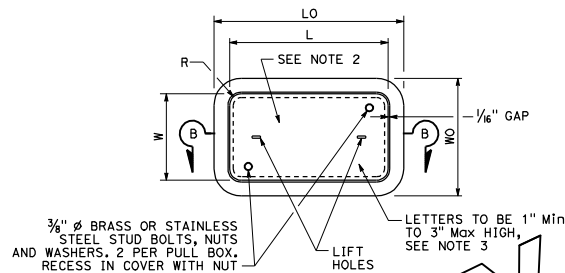
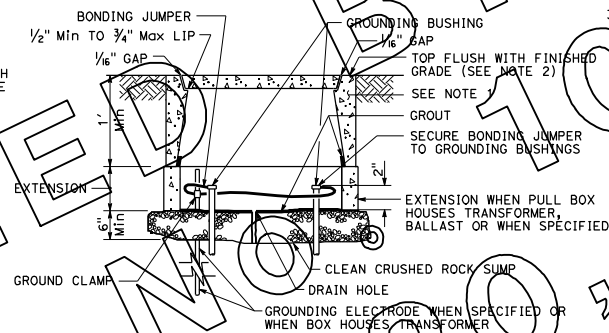


TOP VIEW

SECTION A-A
TRAFFIC PULL BOX
DETAIL A

TOP VIEW

SECTION B-B
PULL BOX
DETAIL B

PULL BOX	CONCRETE BOX				NON-PCC BOX				CONCRETE OR NON-PCC COVERS					
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	WO	LO	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	WO	LO	W **	L **	R	EDGE THICKNESS	EDGE TAPER	
No. 3 1/2	2"	NO EXTENSION	1'-2"	1'-7"	3/8"	NO EXTENSION	1'-2"	1'-7"	10"	1'-3"	1 1/8"	1 3/4"	1/8"	
No. 5	2"	1'-10"	1'-6"	2'-4"	3/8"	1'-8"	1'-6"	2'-4"	1'-2"	2'	1 1/4"	2"	1/8"	
No. 6	2"	2'	1'-10"	2'-10"	3/8"	1'-8"	1'-6"	2'-6"	1'-6"	2'-6"	1 1/4"	2"	1/8"	

* EXCLUDING CONDUIT WEB

** TOP DIMENSION

PULL BOX	CONCRETE BOX						STEEL COVER			
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	WO	LO	WI	LI	W **	L **	EDGE THICKNESS	
No. 3 1/2 (T)	2 1/2"	1'	1'-4"	1'-10"	11"	1'-5"	1'-2"	1'-8"	1/2"	
No. 5 (T)	3"	1'	1'-7"	2'-6"	1'-1"	2'	1'-4"	2'-3"	1/2"	
No. 6 (T)	3 1/2"	1'	2'	3'-1"	1'-5"	2'-6"	1'-8"	2'-9"	1/2"	

* EXCLUDING CONDUIT WEB

** TOP DIMENSION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

Jeffrey G. McPhee
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 May 20, 2011
 PLANS APPROVAL DATE
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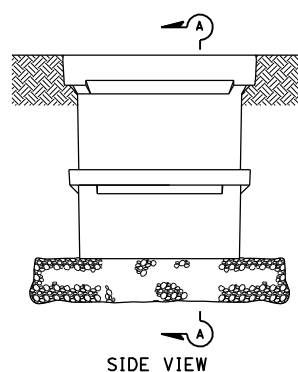
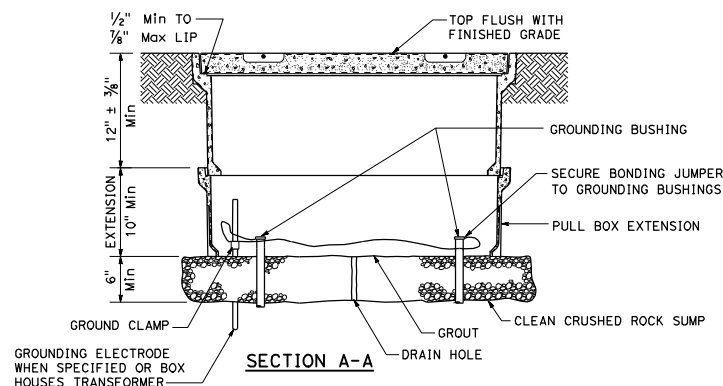
REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McPhee
 No. E14512
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

NOTES:

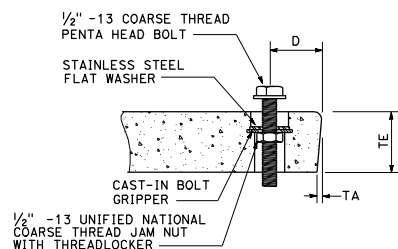
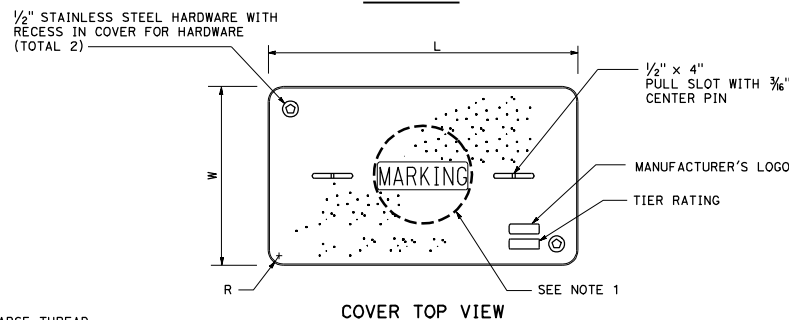
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Top of pull boxes shall be flush with surrounding grade or top of adjacent curb, except that in unpaved areas where pull box is not immediately adjacent to and protected by a concrete foundation, pole or other protective construction, the box shall be placed with its top 1/4" above surrounding grade. Where practicable, pull boxes shown in the vicinity of curbs shall be placed adjacent to the back of curb, and pull boxes shown adjacent to standards shall be placed on side of foundation facing away from traffic, unless otherwise noted. When pull box is installed in sidewalk area, the depth of the pull box shall be adjusted so that the top of the pull box is flush with the sidewalk.
- Pull box covers shall be marked as follows:
 - "SERVICE", service circuits between service point and service disconnect.
 - "SPRINKLER-CONTROL", sprinkler control circuit where voltage is 50 V or less.
 - "CALTRANS", on all pull boxes unless noted otherwise.
 - "TELEPHONE", telephone service.
 - No. 3 1/2 pull box.
 - "SIGNAL", traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING", street or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6 or 9 pull box.
 - "TRAFFIC SIGNAL", traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING", street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE", street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION", circuits to irrigation controller 120 V or more.
 - "RAMP METER", ramp meter circuits.
 - "COUNT STATION", count or speed monitor circuits.
 - "COMMUNICATION", communication circuits.
 - "TOS COMMUNICATIONS", TOS communications line.
 - "TOS POWER", TOS power.
 - "TDC POWER", telephone demarcation cabinet power.
 - "CCTV", closed circuit television circuits.
 - "TMS", traffic monitoring station circuits.
 - "CMS", changeable message sign circuits.
 - "HAR", highway advisory radio circuits.
 - "LIGHTING", lighting circuits.
- Dimensions are nominal values. The dimension of the opening in which the cover sets in shall be 1/8" greater than dimension of the cover.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside edge of concrete covers and pull boxes shall have a 1/4" minimum radius.
- Pull boxes shall not be installed within the boundaries of new or existing curb ramps.
- Pull boxes for electroliers, post and signal standards shall be located within 5'-0" from the station of the adjacent electrolier, post or signal standard. Pull boxes shall be placed adjacent to back of curb or edge of shoulder except where this is impractical, a box may be placed in another suitable protected and accessible location.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (PULL BOX)**
 NO SCALE

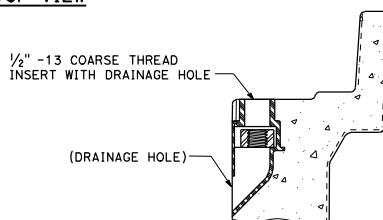
ES-8



INSTALLATION DETAILS
DETAIL A



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER
No. E14512
Exp. 6-30-12
STATE OF CALIFORNIA

January 20, 2012
PLANS APPROVAL DATE

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NOTES ON PULL BOXES:

- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - No. 3/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to Irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
NO SCALE

RSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

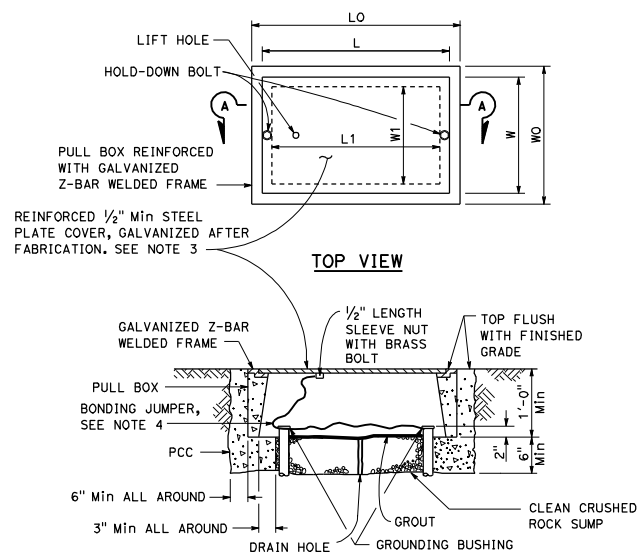
REVISED STANDARD PLAN RSP ES-8A

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-12
 STATE OF CALIFORNIA

January 20, 2012
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SECTION A-A

**No. 3½(T), No. 5(T) AND
No. 6(T) TRAFFIC PULL BOX**

NOTES ON PULL BOXES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
 - No. 3½(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
- Covers and boxes must be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces must be flush within ⅛".

DIMENSION TABLE

PULL BOX	BOX					COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	W0	L0	L1	W1	L **	W **	R	EDGE THICKNESS
No. 3½(T)	1½"	1'-0"	1'-5"± 1"	1'-8¾"±	1'-2½"±	10¾"± 1"	1'-8"±	1'-1¾"±	0"	½"
No. 5(T)	1¾"	1'-0"	1'-11½"± 1"	2'-5½"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	½"
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11½"±	1'-11½"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	½"

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(TRAFFIC RATED PULL BOX)
NO SCALE

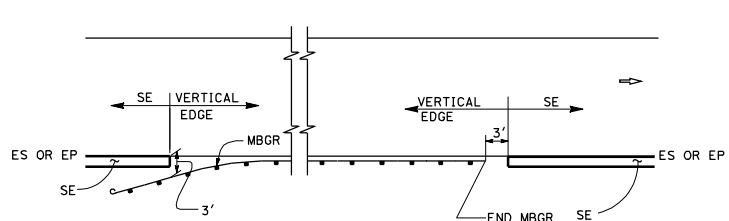
RSP ES-8B DATED JANUARY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

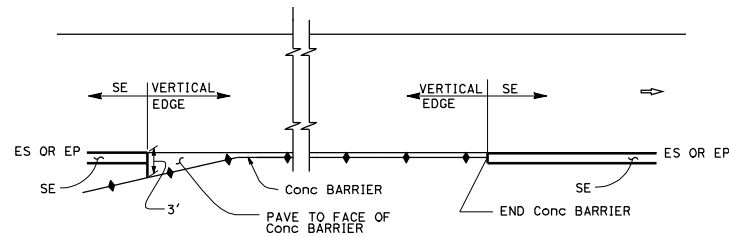
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
<p><i>R. M. M.</i> REGISTERED CIVIL ENGINEER</p> <p>January 20, 2012 PLANS APPROVAL DATE</p> <p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
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Cornelio M. Hakim
No. C55610
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

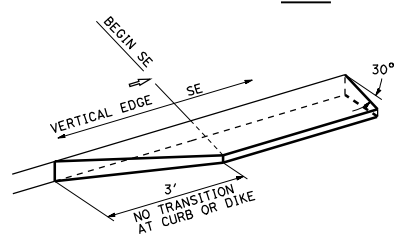
ABBREVIATIONS:
SE SAFETY EDGE



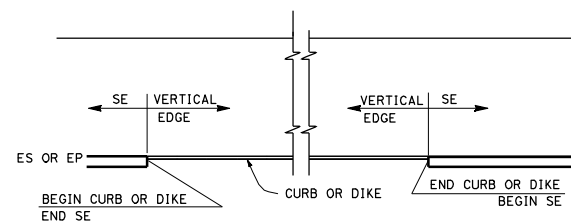
MBGR



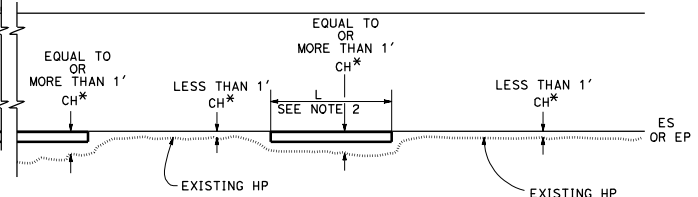
CONCRETE BARRIER



**TRANSITION DETAIL
FOR CONCRETE ONLY**

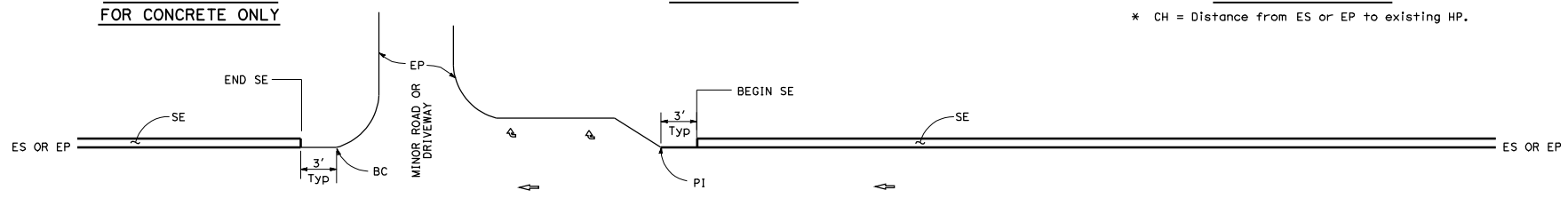


CURB OR DIKE



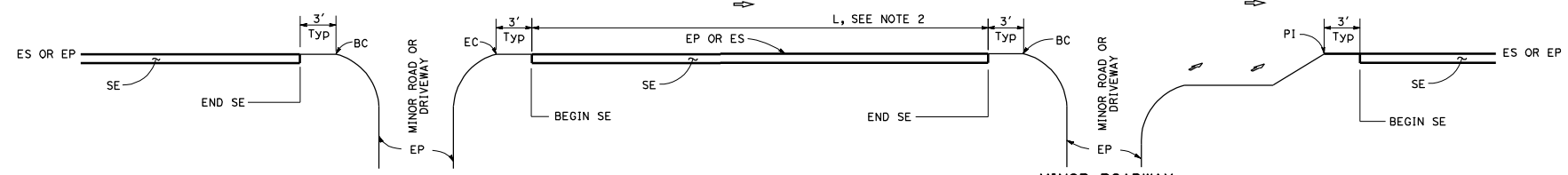
NARROW SIDE SLOPE

* CH = Distance from ES or EP to existing HP.



STATE ROUTE

STATE ROUTE



DRIVEWAY AND INTERSECTION

**MINOR ROADWAY
OR
DRIVEWAY**

INTERSECTION

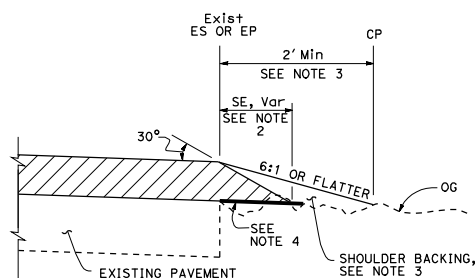
NOTES:

1. For details not shown, see Revised Standard Plans RSP P75 and RSP P76.
2. Safety edge is optional when L is less than 30'.

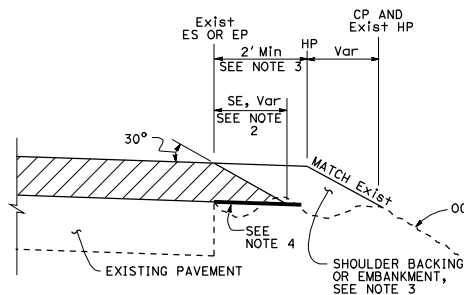
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT EDGE TREATMENTS
NO SCALE

RSP P74 DATED JANUARY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

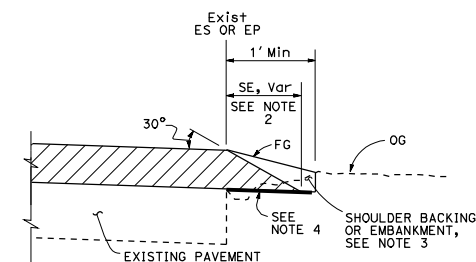
REVISED STANDARD PLAN RSP P74



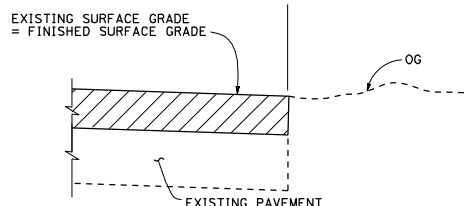
CASE A
Safety Edge



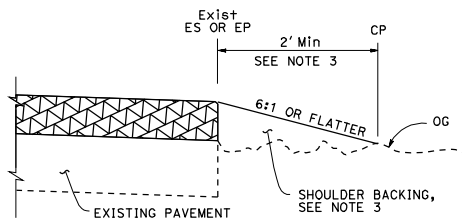
CASE B
Safety Edge



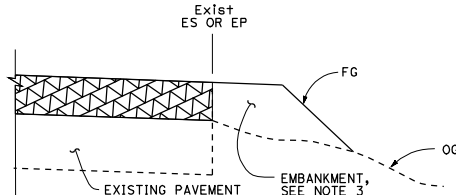
CASE C
Safety Edge



CASE D
Vertical Edge



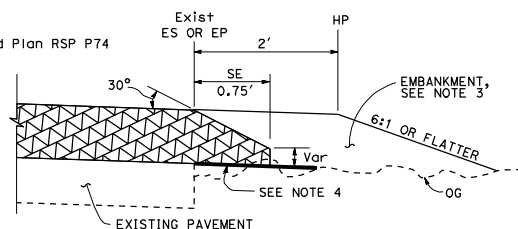
CASE E
Vertical Edge



CASE F
Vertical Edge
* See Table A and Revised Std Plan RSP P74

NOTES:

- For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74.
- Details shown for HMA overlay thickness less than 0.43'. See Detail "A" for HMA overlay thickness more than 0.43' or concrete overlay.
- For locations and limits of shoulder backing or embankment see project plans.
- Grade existing ground to place safety edge. 1' minimum width
- Safety edge transverse joint must match overlay transverse joint. End of #6 longitudinal bar must be 2" ± 1/2" clear from transverse joint.
- Safety edge is not needed in the area of MBOR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.



DETAIL "A"

For HMA overlay thickness more than 0.43' or concrete overlay

LEGEND:

- HMA OVERLAY
- HMA OR CONCRETE OVERLAY
- CONCRETE OVERLAY

ABBREVIATIONS:

- SE SAFETY EDGE
- TT TOTAL THICKNESS OF SE

TABLE A
EDGE TREATMENT FOR VARIOUS OVERLAY THICKNESS AND CONDITIONS

FIELD CONDITION	OVERLAY THICKNESS	
	LESS THAN 0.15'	0.15' OR MORE
Exist SLOPE 6:1 OR FLATTER	CASE E	CASE A
Exist SLOPE 3:1 TO 6:1	CASE E	CASE B
Exist SLOPE STEEPER THAN 3:1	CASE F	CASE F
CUT SECTION (REPLACE, COLD PLANE, MILL PAVEMENT)	CASE D	CASE C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Cornelius W. Hakim
No. C55610
Exp. 12-31-12
STATE OF CALIFORNIA

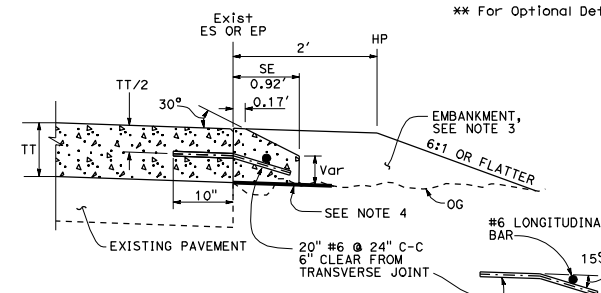
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ADDITIONAL HMA OR CONCRETE QUANTITIES FOR SE/SIDE/MILE

TYPICAL CROSS SECTION	TT	TOTAL ADDITIONAL MATERIAL FOR SE/SIDE/MILE		
		HMA (TON)	CONCRETE (CY)*	CONCRETE (CY)**
	0.15'	NA	NA	NA
	0.20'	13.7	NA	NA
	0.30'	30.9	NA	NA
	0.40'	54.9	NA	NA
	0.45'	69.4	NA	NA
	0.50'	84.2	NA	NA
	0.60'	113.9	NA	NA
	0.70'	143.6	70.9	94.2
	0.80'	173.3	85.6	112.2
	0.90'	203.0	100.3	130.2
	1.00'	232.7	114.9	148.2
	1.10'	262.4	129.6	166.2
	1.20'	292.1	144.3	184.2

* For Detail "A"
** For Optional Detail "A"



OPTIONAL DETAIL "A"

For concrete overlay
See Note 5




STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT EDGE TREATMENTS- OVERLAYS

NO SCALE

RSP P75 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P75


LEGEND:

-  HMA PAVEMENT
-  HMA OR CONCRETE PAVEMENT
-  CONCRETE PAVEMENT

ABBREVIATIONS:

- SE SAFETY EDGE
- TT TOTAL THICKNESS OF SE
- HW HINGE WIDTH, DISTANCE FROM ES OR EP TO HP

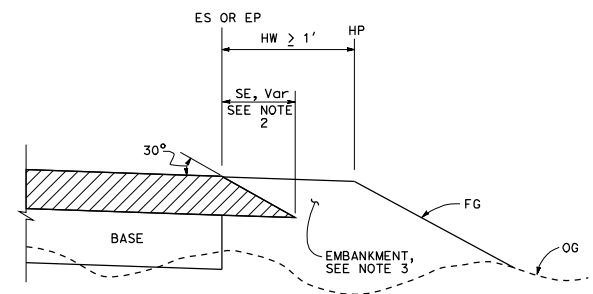
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS



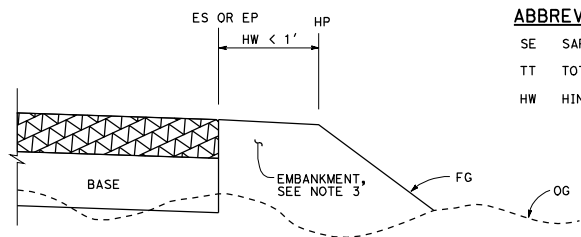
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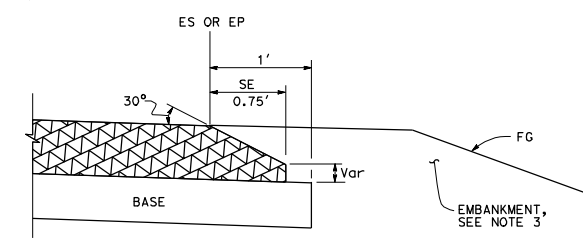
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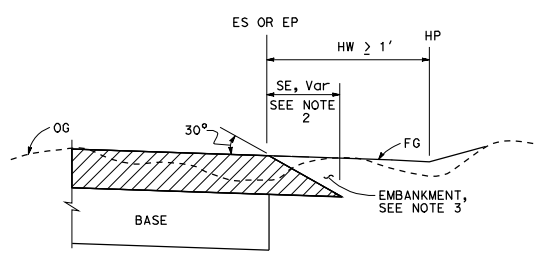
CASE K
Safety Edge - Fill Section, HW ≥ 1'



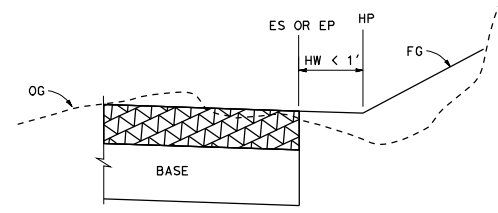
CASE L
Vertical Edge - Fill Section, HW < 1'



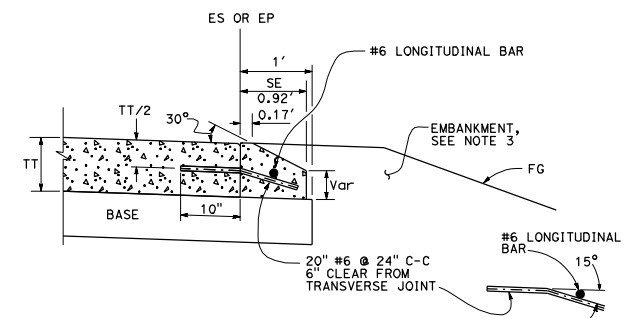
DETAIL "B"
For HMA pavement thickness
more than 0.43' or concrete pavement



CASE M
Safety Edge - Cut Section, HW ≥ 1'



CASE N
Vertical Edge - Cut Section, HW < 1'



OPTIONAL DETAIL "B"
For concrete pavement
See Note 4

NOTES:

- For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74
- Details shown for HMA pavement thickness less than 0.43'. See Detail "B" for HMA pavement thickness more than 0.43' or concrete pavement.
- For locations and limits of embankment see project plans.
- Safety edge transverse joint must match pavement transverse joint.
End of #6 longitudinal bar must be 2" ± 1/2" clear from transverse joint.
- Safety edge is not needed in the area of MBGR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT EDGE TREATMENTS-
 NEW CONSTRUCTION**
 NO SCALE

RSP P76 DATED JANUARY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P76